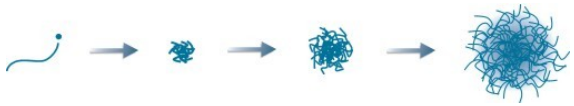
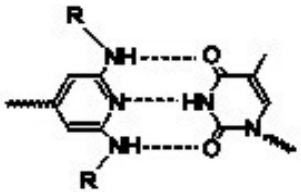
Microgels for Optical Tagging

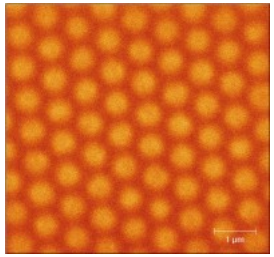


Hydrogel Nanoparticle Synthesis

Particle Linking



Colloidal Assembly



Photonic Crystals

Optical Tags

Objective

To investigate the potential of microgel-based synthesis techniques to optical tagging

Approach

- Investigate 2-5 micron particle synthesis
- Investigate processes for stabilizing particles into a colloidal crystal structure
- Combine results of previous steps for creating arrayed/multi-layered films
- Investigate environmental robustness issues

Payoff

Alternative approach for identification of individuals/objects in a confused/urban environment

Principal Investigator Progress

Georgia Tech

New Start